

Draper Blasts U.S. Missile Program, Calls for a Unified Space Agency

by George Lakoff, '62

Charles S. Draper, one of America's leading missile scientists, this week blasted the Eisenhower administration for its hit and miss space program and called for a clear delineation of goals with respect to missile development. Draper is head of the MIT Department of Aeronautical Engineering and is the originator of the inertial guidance principle.

Draper hit the administration policy of "putting money on all horses," and advocated the creation of a single space agency under the direction of one capable man. Here Draper spoke against President Eisenhower's most recent plan for the reorganization of the space program as defended by space agency administrator T. Keith Glennan before Congress this week. The president's plan calls for the creation of a civilian agency to conduct space explorations leaving the Defense department free to pursue the military applications of space. Glennan was called upon to account to Congress for the lack of coordination between the military and civilian space agencies. Glennan argued that if a single space agency were established, the military would soon be dominating the agency. Draper agreed, but retorted, "Is this bad? The reason we have any space program at all right now is because we wish to hold our own with the Russians."

"If we are going into space," Draper continued, "our goal should be to build vehicles for interplanetary exploration. The Russians pulled ahead of us by aiming directly at preeminence in the field of missiles and rockets." Draper added that money had been wasted on projects like the B-36, Navaho, and Snark programs, which, he claimed, did not improve our position with respect to the Russians. The money is available, Draper said, but it has not been properly channeled.

"It doesn't make too much difference how such a program is organized," Draper said, "as long as there is in charge one man with a clear idea of what he wants and with a good technical grasp of the facts. Any development which you want to be really effective must be under the responsible direction of one well led organization. If you split things up you get the situation that we have in existence right now."

"You must have a good man," Draper said, "and I do not see how you can tell whether you have a good man or not unless you do give him the opportunity to exercise the authority and to use his imagination. You cannot do the job if you split it up into little bits."

When asked what would happen if

(Continued on page 3)

All Tech Sing To Feature Egbert

In Kresge Auditorium tomorrow night the campus will witness one of MIT's finest musical traditions — the All Tech Sing. Thirteen living groups will participate in the show, each hoping to win one of the six trophies being offered by the MIT Baton Society, sponsors of the weekend event.

Dave Eglington, '61, Co-ordinating Chairman of the affair, says that this year a "more equitable" awarding system has been adopted; there will be two judging categories — light music and serious music; and two prizes will be presented for the most outstanding performance in each.

He noted that EGBERT, a secret prize, will be given to the group giving the most "unique and novel" performance. This year the Association of Women Students and Senior House

Pete Seeger Strums

Banjo Monday 5:30

At Kresge Concert

Pete Seeger, one of America's most noted folk singers, will strum his famous five and twelve string banjos for an MIT audience at Kresge Auditorium Monday evening at 5:30. All tickets for the performance have been distributed; however, anyone without a ticket will be admitted free after 5:25.

"It was a case of love at first sight," Seeger says of his long-necked five-stringed banjo. From churches to taverns, from street corners to Carnegie Hall, Seeger has played the instrument before every imaginable type of audience.

He has run flatfooted through a wide spectrum of experiences, starting out as a train-hopping rod-rider, through most of what was then the 48 states. He has run the gamut of humanity and in the process has learned an enormous number of songs. His repertoire includes hundreds of melodies — ballads, blues, courting songs, lullabies, hymns and spirituals, marching tunes, and work songs of many occupations.

Seeger organized the Weavers in 1948, and in 1949 was signed by Decca Records. He rose to national fame in the realm of popular music with his recording of "Goodnight, Irene", which sold over two million copies.

He remained with the Weavers until a few years ago, when he decided to strike out on his own. Since then, he has probably sung to more audiences than any other folk singer in the country. The American colleges in particular form the bulwark of Seeger's popularity. His influence on the American college students is demonstrated daily in folk sings across the country.

NDEA Affirmation Criticized

Oath Attacked by Harvard Group

A joint Harvard-Radcliffe group has requested the assistance of MIT students in repealing the very controversial loyalty oath provision of the National Defense Education Act of 1958.

In a letter to past UAP Chris Sprague, '60, the group, which calls itself the *Student Committee For the Repeal of 1001 (f)*, (the number of the section in question), requested that a group be formed at MIT for the purpose of encouraging students to write their Congressmen and Senators urging the repeal of this section. When questioned on the issue, which has not changed its aspects appreciably from the time last year when Inscomm decided not to take a pro-or-con stand on the matter, Sprague said that the request was entirely in accordance with Inscomm's decision. That is, those students who are interested should write their Congressmen and convey their opinions, but a Student Government group should not try to express the sentiment of the entire student body on an occasionally controversial issue.

Incoming UAP Ira Jaffe, '61, would not take a personal stand on the loyalty affidavit, due to the fact that he has not yet been installed as UAP and also the fact that he felt his personal opinion would not necessarily be that of all the students whom he represents. He stated that he would welcome the matter's being brought up before an early session of the new Institute Committee when it meets shortly.

The main objection to the Section now lies in the so-called "disclaimer affidavit," which, in effect, states that the individual does not support or believe in the unconstitutional overthrow of the U. S. Government. In the opinion of its opponents, the affidavit is in itself un-American, since it is subversive of the freedom of belief.

The more practical-minded opponents argue that the affidavit is of little value, since a Communist would have no compunctions about making any number of false oaths that he felt necessary for his purposes.

Dramashop to Present One-Act Plays March 18

Productions of Saroyan, Wilder Featured

With rehearsals already fully underway, the MIT Dramashop is preparing the next evening of one-acts, to take place in the Little Theatre of Kresge Auditorium, on March 18th, at 8:30 P.M.

On the program will be "A Happy Journey to Trenton and Camden", by Thornton Wilder and "Hello, Out There", by William Saroyan. The first is based on a New Jersey's family trip to the "Big Town" and was written in the same style that made "Our Town" one of the best contemporary American plays. "Journey" will be directed by Miss Lynn Rich, and will star William Bisson, Leon Davis, Larry Rothman, Ruth Entine and Shirley Spectre.

"Hello, Out There" is being directed by Jean Pierre Frankenhuis, and tells of the conflict between a bum who finds himself in jail for a crime he didn't commit, and a small town girl who thinks he'll take her away from where she lives. Starring in the lead roles will be John Ryon and Francesca Solano, with Ralph Gilbert, Marilyn Stasio and Ned Staples.

The production will see the directing debut of Miss Rich who has done a very fine job, in the past, as a light designer. It will be the fifth time Mr. Frankenhuis directs at MIT, his past work including "End Game" by Samuel Beckett and "The Apollo of Bellac" by Jean Giraudoux.

After the performances there will be a critique followed by refreshments. Mr. Frankenhuis stated the critique would be a good opportunity for those interested in the theatre to express their opinions about the productions as well as ask questions to any of the performers or technicians.

VI-A MEETINGS

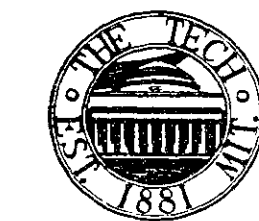
The following meetings will be held for Course 6A students and interested freshmen:

Tuesday, March 15, at 5:00 P.M., in room 10-250 — Electrical VI — A Co-operative Course talk for sophomores by company representatives from

Raytheon Manufacturing Company Naval Ordnance Laboratory Bell Telephone Laboratories

Thursday, March 17, at 5:00 P.M., in room 10-250 — Electrical Engineering VI — A talk for sophomores by company representatives from:

American Electric Power Inc. General Electric Company IBM Corporation



The Tech

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5 Cents

International Week Opens With Dance Tomorrow; Sports, Movies, Folk Dances To Follow

Ukrainian dancers, yogis, jujitsu experts, and Chinese fashion models will come forth from the ranks of the MIT student body this week as the second annual International Week gets underway.

Club Latino's International Fiesta will kick off the week's festivities tomorrow night at the MIT Faculty Club at 8 P.M. Highlighting the week will be Tuesday's panel discussion on underdeveloped countries, Wednesday's African dance show, and next Saturday's International Dance Show.

Also on the program are an International Week Sports Exhibition on Sunday and an International Movie Evening on Thursday.

Tickets for the International Fiesta, the African Dance Show and the International dance show are now on sale in Building 10, at Kresge Auditorium and at TCA.

Jaime de Sola, in charge of the program, noted that Club Latino sold 125 tickets in their first three days of sales.

Sunday's sports exhibition will be held in Rockwell Cage at 2:30 P.M. Japanese students will demonstrate judo and jujitsu; representatives of the British Commonwealth, including a number of expert players now at Harvard, will give an exhibition of cricket, and the final demonstration will feature "Kabaddi", a game played in India and rarely seen in the United States. This ancient game involves the use of a ball, but is not similar to any of the popular American sports. Each exhibition will last half an hour.

No event is scheduled for Monday. On Tuesday evening, Professor Everett E. Hagan of the MIT Economics Department will moderate the panel discussion on "Underdeveloped Countries — A Threat to World Peace?"

The panelists will be Dr. Max Millikan, director of the Center for International Studies; Dr. Leonardo Ricci, Bemis Professor of Architecture (visiting) at MIT; Dr. Paul N. Rosenstein-Rodan and Dr. Walt W. Tostow, both staff members of the CIS; Professor Raymond Vernon of the Harvard Business School and Yves Rodrigues an Algerian who is Charge de Maison of the French-African community in Paris. M. Rodrigues is now at Harvard conducting research.

Michael Olatunji, choreographer for the New York production of Raisin in the Sun, will direct the professional African Dance Group to perform Wednesday night at eight in Kresge. Admission is \$1. The group will be accompanied by native African instruments.

"Holy Week in Popayan" and "Land Without Bread" will head the bill at Thursday's International Movie Evening, at 8, in Room 10-250. The showing, sponsored by the LSC Classics Series, will also include semi-travelogues and experimental films. All are among the outstanding foreign contributions to the screen in the past few years.

The International Dance Show, on Saturday, at 8:30 P.M., in Kresge, will climax the week's activities. Folk dancers from Scotland, the Ukraine, Spain, the Arab countries, the Latin American countries, Israel, India, Lithuania and the United States will perform. Chinese students will put on a fashion show. Gregory MacDougall, a professional Director, will be in charge of the Show.

Priest Hits Artificial Birth Control

Father Connery, S.J., attacked the contraceptive method of birth control before a large audience in the Miller Room last Wednesday. In light of scientific evidence, because of a seemingly inevitable population increase food supply could become critical, Father Connery suggested two possible solutions — a step-up in food production or the use of the so-called rhythm method in place of contraceptives.

In support of his faith's opinion, Father Connery cited statistical evidence which indicated that users of contraceptives had a higher incidence of infidelity than non-users. He also took care to point out that statistical evidence is not always reliable.

In summing up the public's opinion in general and the college student's in particular, Father Connery reminded his audience that the anti-birth control laws now in effect in Massachusetts and Connecticut were enacted during Protestant administrations.

A recent telephone survey was made of over 1500 college students to discover what their opinions were concerning birth control and the use of contraceptives. Of the students surveyed, 673 (44.8%) were in favor of birth control, 654 (43.6%) were opposed and 173 (11.6%) were in favor of a modified birth control program or held no opinion. In addition, a questionnaire regarding birth control was mailed to each of the 1500 students called.

Kelsey Speaks At Fifth Martin Lecture

General B. S. Kelsey, a graduate of MIT, gave the fifth annual Minta Martin Lecture last night. This year's lecture was entitled "Size Considerations in Optimum Aircraft".

The lecture was delivered by Brig. Gen. Benjamin S. Kelsey (USAF, ret.) Hunsaker Professor of Aeronautical Engineering here at MIT. He is scheduled to deliver the same lecture at the University of Maryland, on March 15, and in Los Angeles, Calif., on March 31.

General Kelsey received both his bachelor's and master's degrees here and served in the service for nearly thirty years until his retirement in 1955 as Deputy Director, Research and Development, (USAF). General Kelsey has played a great part in the development and procurement of fighter aircraft.

Non-Resident Election

Dave Williams Prexy

The new slate of officers of the Non-Resident Student Association, as a result of their recent elections, are President, Dave Williams; Vice President, Bill Scanlon, '61; Treasurer, Ed Tucker, '61; and Secretary, Bob Lewis, '61. Also elected as Members-At-Large were Herschel Clopper, '62, Ben Consilvio, '62, Mike Gorfinkle, '62 and Hal Metcalf, '62.

Further elections will be held on Thursday, March 17, for Social, Athletic and House Committee Chairman.

All non-resident students are urged to vote at the NRSA House, 318 Memorial Drive, as these positions are equally as important.

BU Blaze Attracts MIT Men; Coeds Refuse To Return

Sirens again sounded on Beacon Street Tuesday as the Boston Fire Department — and MIT Beacon Street fraternities turned out for the second fire in a week at Boston University's Charlesgate Dormitory. The blaze was the fifth at the school in four days.

This was one of a series of fires which began early last Saturday morning. Suspecting pranks, the arson squad was called to Tuesday's fire and upon investigation discovered that the fire was apparently caused by smoking in bed. As a result of Saturday's fire all the girls housed in Charlesgate Dormitory, mostly freshmen, were restricted to quarters last weekend.

After this last fire, about 300 girls refused to return to their rooms, apparently fearing further outbreaks. They took rooms in nearby hotels and homes.

Letters and Comment

OPEN LETTER

Dear International Student:

Next week, March 12-19, the International Program Committee, the coordinating body of all national groups at MIT, will be holding International Week 1960. The idea behind this week is simply that it is felt that the foreign students at MIT — which has the highest percentage of any American university, or 12.4% — can do a lot to make the MIT community more aware of distant countries and native cultures. Our slogan is, therefore, "MIT Looks at the World" rather than the trite "The World Looks at MIT". We believe that you will agree this is a unique way of saying "Thank You" to the Americans for their help and hospitality during the years spent in the USA, by giving them something in return.

Rather than boring talks and panels such as most schools tend to present during their International Weekends, we are presenting a varied program of sports, cultural shows, exhibits, etc. We feel that in this form the apathetic student and the American in general who loves to give, but is shocked when he is handed a present, will both learn and enjoy things about the world in which he lives and which he is in a position to lead.

This program is not perfect, but we believe it goes quite far in this aim. The first week of this scope, in 1959, was considered among the best activities of the year and the Karl Taylor Compton Award was bestowed upon us by MIT last spring.

We hope that even if your national group is not represented on the Committee or in the program this year, you will feel with us that this is *your* week. Bring your friends along, both foreign and American, MIT and non-MIT, and last but not least, yourself, sponsor of, and reason for, International Week 1960.

Sincerely,
Jaime deSola, '60, Chairman
International Program Committee

We wish to thank the foreign students for their nice gesture and we would like to remind them that they will always be welcome in the United States, not as "foreign" students but as friends with whom we are glad to share our experiences, our way of life, our country.

We believe that the best way American students can show their appreciation for International Week is to participate wholeheartedly in the many interesting events which will be offered during that period. The quality of the events, last year, was evidenced by the large attendance and we feel sure that MIT will support International Week in 1960 as it has in the past.

Russian at MIT

My Dearest Editor:

Many an astute observer, admiring visitor, bitter Harvardonian, and/or wayfaring vagrant has told me that MIT's resemblance to a factory is uncanny, to speak euphemistically. But I should like to defend this noble institution from such unwarranted slander according to the school loyalties that pound deep within my bosom.

We are told by President's reports, and other such relevant printed matter, that MIT has a strong reliance on the humanities, and in the honorable union of the science and the humanities thus produces the whole man. (As if they could produce half.) Anyhow, we find this aspiration takes form in the generous offering of a large variety of music,

literature, language, political science, and other such courses. Let us consider language courses momentarily.

I had the good fortune to find myself as a participant in an elementary Russian course this semester. (L92, the IBM machine calls it.) Upon arriving I found myself in a seminar room bursting with students plus one small overwhelmed, perplexed, but happy, teacher. (Incidentally, one of the finest professors in the Institute.) My bosom surely did swell to see so many aspiring and eager students in one room. We had registered students, a multitude of listeners, and even totally unregistered students. But then a week later, after the appropriate clerical work of the language department had taken its course, it was found that there were too many people and too few classrooms. Well then, the obvious solution (even to the most casual observer) is simply to open a few more classes. But no. The Institute has allotted the small language department just so much and the money is tied up in making a supersonic inverted exponentially-damped thingamajob in Oshkosh or somewhere. Anyway, we then achieved the unique distinction of being one of the few courses in the school that does not even allow listeners or learners, and the whole assemblage of non-officially-registered students were promptly ejected. Indeed, a unique distinction. Incidentally, we later learned the department couldn't afford to mimeograph our material for us and we had to pay for that. (Imagine what would happen if they charged for physics lab notes.)

At any rate, this whole situation struck me as somewhat inconsistent. It makes one wonder if there might not be a hypocrite in the crowd. Makes you wonder more, to think that there are matriculated students who aren't given the opportunity to learn even when they want to. Of course, maybe Russia and the Russians and all isn't really so important after all, but it sure does make you think twice. . . .

— Robert Allen Morris, '62

It does indeed make one think twice, especially when a number of other facts about this situation are brought to light. Work loads in a number of the sections of this course are being increased so much as to make a mockery of the catalog hours. Students who took a normally paced first semester of Russian are finding themselves pressed. One cannot help but gain the impression that this is being done to lessen enrollment. If this is the case, it is discouraging indeed.

Of the many statistics comparing Russian education to American, one of the most embarrassing ones is a comparison of the percentage of Russian students taking English to the percentage of Americans taking Russian. We are shocked and surprised to find MIT, in most cases a leader in the advancement of American education, to be discouraging anyone from learning the Russian language. The trouble seems to lie in a lack of funds for the Language Department's use. Such funds should be made available from elsewhere within the Institute for the correction of this situation. It should be found and put to use immediately, before any more of the term passes.

— Ed.

reviews

On the Beach

"How did this all happen?" — "Well, we built bigger and more powerful weapons, and then we had the silly notion that we could all live peacefully with each other by protecting ourselves with weapons we could never use. Then one day some poor fellow saw something on his radar screen that looked suspicious, and knowing that soon it might be too late, he pushed the button."

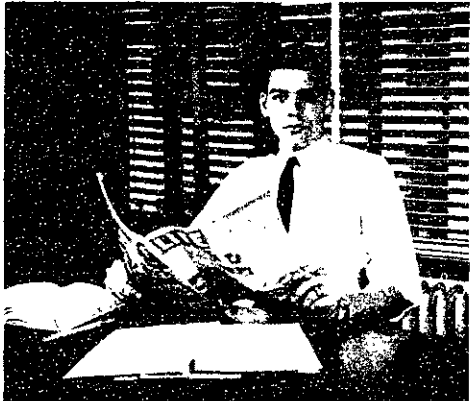
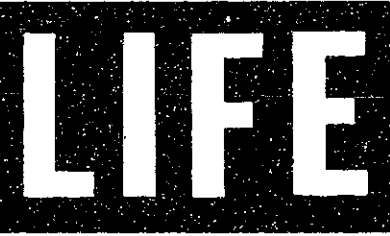
Above is a scientist's explanation of the cause of the destruction of all life on the planet Earth in the movie *On The Beach*. The year is 1964, and the worst thought is that at the rate we have been going the whole thing could easily become reality by that time. The movie does not, however, offer a solution but is only meant to expose the problem for thought on the viewer's part.

We should like to make a few comments on why we consider *On The Beach* one of the best movies made in recent years. First of all, having a book as good as this one written by the late Nevil Shute left little but interpretation for the producer-director Stanley Kramer, who we think did an exceptionally good job of casting. He has chosen actors and actresses who all through the film give a realistic portrayal of their roles. Each of the five stars, coached by Mr. Kramer, is especially sensitive to the feelings which might be experienced by someone in similar circumstances, and a good job has been done in showing the many effects the situation would have on various people. The actions of some of the characters in the end seem a bit "corny" and melodramatic, but how else will people act if this ever happens?

All in all this is an excellent picture, recommended only for those who enjoy seeing a well-acted, serious movie touching on an interesting topic, to which one might give some thought. Avoid the co-feature, but be sure to see *On The Beach*, now playing at the Keith Memorial Theatre, and let us know if you do not think this might be how it would happen.

Gerald J. Hornik, '60

THE EDITOR LOOKS AT



- WILER -

How's **LIFE**? Better question. More to the point. After that's what this column is for, to let you know why the current issue of **LIFE** is worth buying. (They all are, of course, but some are more worthwhile than others.) I'll be here from now till June, look for me.

Civil Rights Fight: In the Senate and at the Lunchcounters

The big story in **LIFE** this week, of course, covers the civil rights issue, on two fronts. First there is a series on the filibustering Senate, with a homey shot of a Senator, clad in a sheet, having just risen from his cot to answer one of a number of quorum calls which came through at odd hours such as 3 A.M. Senator Allen looks more like a Roman senator than the Republican from Colorado. Also, followers and supporters of MIT's EPIC will be interested to see coverage of fellow-pickers in the South, as well as shots of brushes between Negro and white as the conflict over integrated lunch-counters, and the larger question of integration in general continues to sharpen. Harry Golden, South Carolina editor, feels that the Negroes are handling the situation extremely well, and that a major breakthrough in the racial problem is shaping up. Southerners are still smiling, however; witness a photofeature on "Smile Contest" in Jefferson County, Alabama. Check the integration on that 9-year-old.

"Leave It To Eve" was the title of Tech Show; Eve also appears in "Can-Can", 20th Century Fox's newest film, starring Shirley MacLaine, Frank Sinatra, Maurice Chevalier and Louis Jordan. **LIFE** previews in full color the film Nikita Krushchev didn't like — after a conference with Mrs. K.

US53310761, Presley, E., Sgt.

The Baton Society, and other fine music supporters at MIT, will be overjoyed to find that Elvis (Sergeant Presley, sans sideburns) has returned from his two-year exile in Germany, during which his income from record sales was cut to a paltry \$1.3 million. The Pel himself is pictured facing a battery of microphones, surrounded by Army brass, newsmen and Pentagon officials, all admiring his good conduct certificate. Old soldiers never die, we're told.

The Super Chief after hitting an oil truck at 85 mph — a reverse twist to "Remember the Maine" takes place sixty-two years later in Havana Harbor — rescue for American woman after being buried alive for forty hours in earthquake ruins in Morocco — and don't forget the fashion pages: Americans once more prove their ability to copy anything and sell it profitably at one-tenth the price of the original.

Well, that's **LIFE**, March 14, 1960.

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Soifer Tunes Radio Society "Rig"



Seventeen year old Raphael Soifer, above, a freshman at the Massachusetts Institute of Technology, was the leader in a two-year experiment that resulted in what was probably the world's first successful two-way radio communication with the aid of artificial satellites. Soifer is seen here using station WIMX, owned by the MIT Radio Society. Actual contact via satellites was made between New York City and Bethesda, Maryland, in early morning hours of February 6, 1960.

No, this isn't the techretary of the week. It appears that, due to last weekend's somewhat incapacitating precipitation, our photographer was unable to obtain his beloved and anxiously awaited pictures.

The Techretary of the Week will appear as usual next Tuesday. Fill out the nomination blank appearing in the paper and mail them to *The Tech*, Walker Memorial or drop them under our door.

International Week Events

- Saturday: Club Latino Fiesta, Faculty Club, 8 PM.
- Sunday: International Sports Exhibition, Rockwell Cage, 2:30 PM.
- Tuesday: Panel discussion, "Under developed Countries: A threat to World Peace", Room 26-100, 8 PM.

Draper Blast

(Continued from page 1)

such an individual were to do a bad job; Draper replied that it would be worth the risk. "We're so far behind the Russians technically," he said, "that I don't think it makes much difference."

With respect to the conference on nuclear weapons testing to start March 15, Draper noted that the question of testing the nuclear warhead on anti-missile missiles should not come up. We have sufficient apparatus at the present time he said, for finding out just how accurate our missiles are.

Military Ball

Approximately 100 couples attended the Military Ball Saturday night at Walker Memorial. Despite the combined efforts of the Navy, Army, Air Force ROTC units, the Scabbard and Blade Society, and the Pershing Rifles, the dance chairman, Steve Goldstein, '61, reported that "the best we can do is to break even."

The evening was highlighted by the crowning of the queen — Jean Luena. Miss Luena, a Phillipine by birth, is a student at Jackson College. She was escorted by William Bisson, '60, an Air Force ROTC cadet.

KOOL KROSSWORD No. 6

- ACROSS

1. Breakfast-table eye catcher

7. Llama's cousin

13. She sounds anti

14. Mental process

15. Naturally he's gull-ible

16. What to buy Koola by

17. Gush, in a hurry

18. Buys a car

19. Shrunkon continent

20. Canit's Canyon

24. Raison d'

26. Latin wife

27. Mr. K's team

28. It's nothing

29. Man with a burning desire

31. A Kool so refreshing

33. What Diamond Jim turned on in his sink?

36. Snake that's almost a dance

41. Lacks a code

43. Full of fun

44. Names (Latin)

45. Hand on hip, elbow out

46. Builds

47. Time for a change

DOWN

1. Drains

2. Gag man

3. Leaves unprotected

4. Roman road

5. What 2 Down may be (pl.)

6. Half a pack of Kools

7. It's curvacious

8. "Take me to your —"

9. Trim

10. Thin Man's dog

11. What Menthol Magic is

12. Blyth, Arbor, etc.

21. As they say in N. Africa: "—, anyone?"

22. Start of existentialism

23. —-face (reversal of opinion)

24. Period in ceramics

25. Difficult to dig

30. Swimming

32. Willie's shibboleth: "— Kools!"

33. Temple (archaic)

34. What Latin lovers like

35. "— up to the Menthol Magic of Kools"

37. Tel —

38. Little Miriam

39. Little Barbara

40. Plant that sounds like Cockney greeting

42. — Vegas

43. Storage place for cookies
-
- When your throat tells you it's time for a change, you need a real change...
- YOU NEED THE
Menthol Magic
OF KOOL
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- See The Dinah Shore Chevy Show in color Sundays, NBC-TV—The Pat Boone Chevy Showroom weekly, ABC-TV
-
- SIX-PASSENGER
CAR OR
STATION SEDAN
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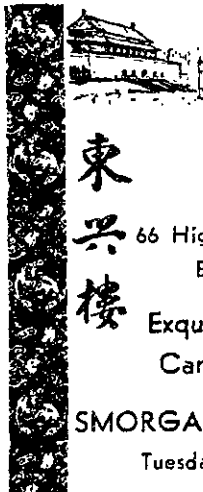
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SMORGASBORD — 6-8 P.M.
Tuesday through Sunday

All-Day Meet At Dupont

NE Fencing Scheduled Saturday

Four seniors and one junior will represent MIT in the New England Intercollegiate Fencing Championships to be held Saturday at the Dupont Athletic Center. The tournament, which was postponed from last week, will start at 10 A.M. The fencing, which will be conducted in three rooms, is expected to continue until 10 P.M.
Competing for MIT in the foil will be captain Sherman Karp, '60, and Jerry Yarbrough, '60. Karp is undefeated this season. Joe Verderber, '60, and Earl Koepke, '60, will represent MIT in sabre competition. Wielding the epee will be Chuck Haspel, '60, and Bill Julian, '61.
The tournament will be conducted in a round-robin manner, with 84 bouts scheduled in each division. Each school sends two men in each weapon. The best fencing will probably occur between 10 A.M. and 2 P.M. when the top men from each school are in action against each other. The second men will also duel among themselves during this time.
The University of Connecticut is the defending champion.

On Deck

Saturday, March 12
New England Fencing at Dupont Center 10 A.M.
New England Rifle Championships at BU
Skiing — Amherst Slalom at Hanover, N. H.

LACROSSE
Prospective freshman lacrosse players are encouraged to report to practice any weekday after 5 P.M. in the Armory or Rockwell Cage.



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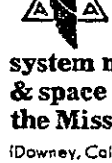

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 <p>Nuclear power at the Atomics International Division (Canoga Park, California)</p>	<p>Atomics International, located in the San Fernando Valley of Southern California, is a leader in the development and manufacture of nuclear reactors for power, research, and mobile systems. Two proven AI power reactor concepts are now under construction. Atomics International is building a Sodium</p>	<p>Graphite Reactor for the Consumers Public Power District of Nebraska and an Organic Power Reactor at Piqua, Ohio. AI also is engaged in extensive research activities to develop improved materials for fuel elements and reactor components.</p>
 <p>Electronics & electro-mechanics at the Autonetics Division (Downey, California)</p>	<p>Autonetics, a leader in the field of electronics, is engaged in research, development, and manufacture of Computers, Inertial Guidance, Armament Control and Flight Control Systems. Autonetics designed and built the inertial navigation system for the USS Nautilus and Skate; the first, completely auto-</p>	<p>matic landing system for supersonic missiles and aircraft; the first, general purpose, all-transistor, digital computer. It is now at work on the inertial navigation system for the first nuclear-powered Polaris-carrying submarines and the guidance and control systems for the Minuteman and GAM-77 missiles.</p>
 <p>Naval aircraft & missiles at the Columbus Division (Columbus, Ohio)</p>	<p>The Columbus Division, designed and built the Navy's T2J Buckeye, America's most versatile jet trainer which will train today's jet cadets to command tomorrow's manned weapons systems, and the Navy's supersonic, all-weather A3J Vigilante, today's most versatile manned weapons system. Advanced</p>	<p>design studies now underway at the Columbus Division include undersea, land, and air weapons systems for all Military Services. Current studies include ASW, missiles, ECM, intercept aircraft, electronics systems, VTOL-STOL, ground support equipment, and other still confidential programs.</p>
 <p>Design & development of manned weapon systems at the Los Angeles Division (Los Angeles, California)</p>	<p>The Los Angeles Division is the home of the next-generation manned weapon system—the Mach 3 B-70 Valkyrie multi-purpose bomber—and America's first manned space vehicle, the X-15. Engineers in this division are engaged in research, development, and</p>	<p>production of complete manned weapon systems. Work encompasses the fields of Electronics, Metallurgy, Structures, Aerodynamics, Thermodynamics, Dynamics, Mathematics, Physics, Human Factors and Industrial Engineering.</p>
 <p>Missile weapon system management & space research at the Missile Division (Downey, California)</p>	<p>The Missile Division is the home of the GAM-77 "Hound Dog," an air-to-surface missile for the Air Force's B-52 bomber. The Missile Division has within its ranks some of the nation's most experienced engineers and scientists in the fields of missiles and weapon systems. They are performing research on</p>	<p>missiles and space exploration vehicles of a wide variety of range, speed and propulsion methods. Scientists at the Aero-Space Laboratories, an organization within the Missile Division, are conducting creative research well in advance of existing technology in the space sciences.</p>
 <p>Propulsion systems and concepts at the Rocketdyne Division (Canoga Park, California) (McGregor, Texas)</p>	<p>Rocketdyne is engaged in ideas-to-hardware development of propulsion systems. High-thrust liquid propellant engines, built by Rocketdyne, have powered most of the missiles used for military and civilian space projects including Atlas, Jupiter, Thor, Redstone, Explorer, Discoverer, Pioneer, Juno, and others. Under development at present are two super performance liquid systems. While leading the nation in liquid propellant</p>	<p>systems, the division is under contract for high energy solid propellant motors and unique accessory equipment. Solid propellant operations are located at McGregor, Texas. Other propulsion system concepts are actively under development employing the principles of ion energy, nuclear energy, plasma jets, arc-thermodynamic and magnetohydrodynamic systems.</p>

WTBS
Program
Schedule


Friday
7:30-8:45 A.M. Rise and Shine
5:00 P.M. Caravan
6:00 Jazz
7:00 Fiesta
8:00 Baton Society
9:00-2:00 Nite Owl

Saturday
5:00 P.M. Jazz
7:00 Show Music
9:00-2:00 Nite Owl

Sunday
4:00 P.M. Sunday Serenade
7:00 Folk Music
8:00 Jazz
9:00-1:00 Classical Music

Monday
7:30-8:45 A.M. Rise and Shine
5:00 P.M. Caravan
6:00 Jazz
7:00 Bob Nagro Show
9:00-1:00 Classical Music

L & M NEWS
Monday-Friday
8:00 A.M., 5:00, 7:00, 9:00, and 11:00 P.M.
Saturday
5:00, 7:00, 9:00, 11:00 P.M., and 1:00 A.M.



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West, Relay Team Will Compete in Eastern Swim Meet Saturday



Burnell West, '60, pictured at left, returning from the New England Swimming Championships at the University of Massachusetts last weekend, will head a four-man MIT entry in the Eastern Championships at Harvard Saturday.

West, who last week became the first MIT swimmer ever to win two gold medals in the New Englands, will compete in the 200-yard breaststroke. Earlier this year he tied the New England Intercollegiate record of 2:29.1 for the event. In last week's meet he won the event in 2:31.5.

Medley Team Entered

Also representing MIT will be the medley relay team of Tom Ising, '61, West, Tony Silvestri, '61, and captain John Windle, '60. The quartet won the New England medley last week in 4:04.6, a new MIT varsity record.

Should either West or the relay team gain a high finish in the Easterns, they would probably represent MIT in the National Intercollegiate Championships in Dallas, Texas, March 25.

Distance Swimmers Set

Four MIT distance swimmers will also see action Saturday at Harvard. Dave Stein, '62, Jed Engeler, '62, Silvestri and Pete Bankson, '61, will compete in the 1500 meter race. Last week Stein was just six-tenths of a second over the varsity record 220-yard freestyle.

Engeler set a new varsity record in the 440-yard freestyle with a 5:08.7 performance in a New England qualifying heat. Last year Engeler competed on the freshman team as a back-stroker.

— Photo by Curtiss Wiler, '63

Boston Indoor Meet Ends Winter Track Season Tomorrow

The varsity track team will conclude its winter season tomorrow by participating in the Greater Boston Indoor Track Championships at the Tufts University Cage in Medford. Tufts, Boston College, Boston University, Northeastern University, Brandeis, and the host school, Tufts, will be represented in the meet.

Competing for the Cardinal and Gray will be: Bob Williamson, '60, 50-yard dash and low hurdles; Don Morrison, '61, dash, broad jump, and pole vault; George Withbroe, '61, 100-yard dash; Steve Banks, '62, and Herb Engeler, '61, mile; Herb Grieves, '61, and Paul Robertson, '61, two-mile; captain Bill Nicholson, '60, 35-pound weight throw; Nate Liskov, '60, pole vault; and Joe Davis, '61, high hurdles and high jump.

In addition to the varsity events, a freshman medley relay will be held. Kurtz is slated to lead off in the relay, with John Murdoch and Forrest Engeler will follow with 220's and Tom Dardard will stride the anchor half. Jerry Demetriou and Muili Salami will dress as alternates.

Saturday will mark the debut of ITC, which is intended to become an annual event. It is sponsored by the newly formed Greater Boston Intercollegiate Track and Field Association.

In regular season competition, the Techers bowed to BC, NU, and TU, while topping Brandeis. Following the meet, coach Art Farnham's charges await the clearing of the snow so they can begin outdoor training.

BASEBALL

Persons interested in trying out for varsity baseball are urged to report for practice Monday, Wednesday or Friday, after 4:30 P.M., in Rockwell Gym. Freshmen interested in playing intramural should report any weekday after 5 P.M. in Walker gym.

WANTED: Two working girls, college students '56, looking for 3rd girl to share room & Bay Apt. by the end of April.

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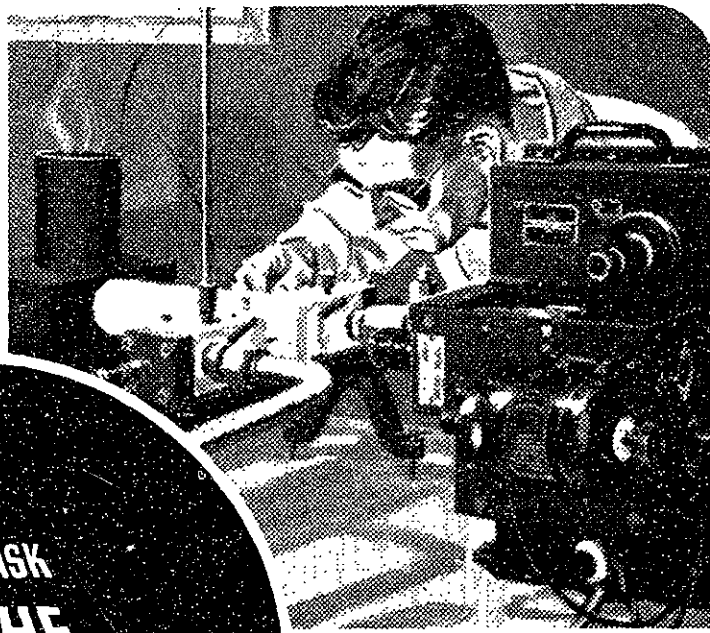
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Since its inception nearly 23 years ago, the Jet Propulsion Laboratory has given the free world its first tactical guided missile system, its first earth satellite, and its first lunar probe.

In the future, under the direction of the National Aeronautics and Space Administration, pioneering on the space frontier will advance at an accelerated rate.

The preliminary instrument explorations that have already been made only seem to define how much there is yet to be learned. During the next few years, payloads will become larger, trajectories will become more precise, and distances covered will become greater. Inspections

will be made of the moon and the planets and of the vast distances of interplanetary space; hard and soft landings will be made in preparation for the time when man at last sets foot on new worlds.

In this program, the task of JPL is to gather new information for a better understanding of the World and Universe.

"We do these things because of the unquenchable curiosity of Man. The scientist is continually asking himself questions and then setting out to find the answers. In the course of getting these answers, he has provided practical benefits to man that have sometimes surprised even the scientist. "Who can tell what we will find when we get to the planets?"

Who, at this present time, can predict what potential benefits to man exist in this enterprise? No one can say with any accuracy what we will find as we fly farther away from the earth, first with instruments, then with man. It seems to me that we are obligated to do these things, as human beings."

DR. W. H. PICKERING, Director, JPL

JPL Representatives here for interviews...

ON MARCH 17, 18

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EGBERT

The MIT Athletic Association Executive Committee is interviewing candidates for the office of Publicity Manager. Interviews will be held Thursday, March 17, at 7 P.M., in the Executive Committee offices in DuPont Building.

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interviews on campus

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Shelly Winters

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Nightly & Sun.

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Huntington

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EMERSON ELECTRIC

interviews

WEDNESDAY
MARCH 23



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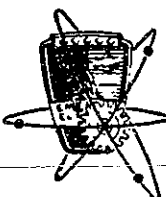
Our Electronics and Avionics Division, formed in 1940, is the world's leading developer and producer of active defense systems for strategic bombers . . . the B-52H and B-58. We are involved in radar development, parametric amplifiers, electronic scanning and complete radar fire control systems, servo devices, analog and digital computers, supersonic airframe structures, automatic test equipment for airborne electronic systems, missiles, rockets, launchers and mortar locators.

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